

ABSTRACT OF THE DISCLOSURE

An optical fiber chromatic dispersion distribution
measuring apparatus for measuring the chromatic dispersion
distribution of an optical fiber under test comprising two
5 light sources 1, 2 at least one of which can change wavelength
thereof, wherein light beams having different wavelengths from
each other and emitted from the two light sources are inputted
to the optical fiber under test 7 to measure a four-wave
10 mixing light beam generated by interaction between the two
light beams by optical time domain reflectometer (OTDR) 9;
wherein an optical bandpass filter 8 having a fixed center
wavelength is provided at a previous stage of the optical time
domain reflectometer (OTDR); and wherein a coherence
15 controller 10 for controlling coherence of at least one of the
light beams outputted from the two light sources 1, 2.